Fujii et al.

[45] Jun. 10, 1980

[54] STABLE AQUEOUS SOLUTIONS OF GLUCANS AND GLUCAN DERIVATIVES	FOR 535471 1
CAPABLE OF INHIBITING SARCOMA IN MICE	333411
Tokyo; Yutaka Iwao, Urawa; Yasumi Yugari; Tsuyoshi Shiio, both of Kamakura; Takashi Yoshihama, Yokohama; Junji Hamuro, Tokyo, all of Japan	American Ho Testolactone Husa, Pharm Publishing C Chemical Ab Chemical Ab Chemical Ab
[73] Assignees: Ajinomoto Co. Ltd., Tokyo;  Morishita Pharmiceuticals Co. Ltd.,  Osaka, both of Japan	The Merck l Rahway, N.J
	Primary Exai Attorney, Age
[22] Pil.1 P.1.0 4056	[57]
[30] Foreign Application Priority Data	The glucans
	growth of sar ble in water,
[51] Int. Cl. <sup>2</sup>	the presence hydroxyethyl ethylene glyc
[56] References Cited	stable solution
U.S. PATENT DOCUMENTS	pentoses or su
3,987,166 10/1976 Komatsu et al 424/180	

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Primary Examiner—Jerome D. Goldberg
Attorney, Agent, or Firm—Toren, McGeady and Stanger

## [57] ABSTRACT

The glucans and glucan derivatives which inhibit the growth of sarcoma 180 in mice are only sparingly soluble in water, and their aqueous solutions are unstable. In the presence of 0.1 to 1.0 g/dl water soluble dextran, hydroxyethyl starch, carboxymethyl cellulose, or polyethylene glycol, they form relatively concentrated and stable solutions, particularly in the presence of hexoses, pentoses or sugar alcohols having 5 or 6 carbon atoms.

1 Claim, No Drawings